

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Monday, November 13, 2023 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

CNX GAS COMPANY LLC 1000 HORIZON VUE DR.

CANONSBURG, PA 15370

Re:

Permit Modification Approval for WDTN18DHSM 47-061-01947-00-00

Lateral Extension

CNX GAS COMPANY LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Operator's Well Number: WDTN18DHSM

Farm Name: CONSOL MINING COMPANY LLC U.S. WELL NUMBER: 47-061-01947-00-00

Horizontal 6A New Drill

Date Modification Issued: 11/13/2023

Promoting a healthy environment.

API NO. 47-7 0 6 1 0 1 9 4 7

OPERATOR WELL NO. WDTN18DHSM

Well Pad Name: WDTN18

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: CNX GAS C		158046 erator ID		BATTEL WADESTOWN District Quadrangle
2) Operator's Well Number: WD			Name: WDTN	
3) Farm Name/Surface Owner:	ONSOL MINING CO. LLC	Public Road	Access: CAM	P RUN ROAD CR 4
4) Elevation, current ground: 1	215' Elevation	n, proposed p	ost-construction	n: 1199'
5) Well Type (a) Gas X	Oil	Under	ground Storage	
Other				
(b)If Gas Shall	ow X	_ Deep		
Horiz	zontal X	_		
6) Existing Pad: Yes or No YES	/			
7) Proposed Target Formation(s), Target formation is Marcellus Sh	1 (//		1	
8) Proposed Total Vertical Depth	7848' TVD at TD, o	depending or	n formation dip	/
9) Formation at Total Vertical De	pth: Marcellus Shale	e (will not pe	netrate Onond	aga) /
10) Proposed Total Measured Dep	oth: 26,504' MD at 7	TD /		
11) Proposed Horizontal Leg Len	gth: 18,207'			
12) Approximate Fresh Water Str	ata Depths: 103',	111', 190', 2	243', 259', 325	, 399' -
13) Method to Determine Fresh V	Vater Depths: Offset	Well Informa	ation	
14) Approximate Saltwater Depth	s: <u>2415', 3045', 3210</u>)' /		
15) Approximate Coal Seam Dep	hs: 448'-449', 537'-5	538', 612'-61	3', 614'-617', 8	73'-878', 960'-974'
16) Approximate Depth to Possib	le Void (coal mine, ka	rst, other): N	lone Anticipate	ed
17) Does Proposed well location of directly overlying or adjacent to a		Yes	No	X
(a) If Yes, provide Mine Info:	Name: see mine m	пар		RECEIVED Office Of Oil and Gas
1.000	Depth:			
CV#21400439	Seam:			NOV -1 2023
# 75009	Owner:			WV Department of Environmental Protection
CK#2140043934 # 750099				
	Gayne Digitally signed by Gayne Knitowski,			
	Inspector Inspector Date: 2023.10.25			Page 1 of 3
				1 40 - 010

47 0 6 1 0 1 9 4 7

API NO. 47OPERATOR WELL NO. WDTN18DHSM

Well Pad Name: WDTN18

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	L/S	<94.0	75	46 /	96 / CTS /
Fresh Water	13.375	New	J-55	54.5	1,180	1,151 /	940 / CTS
Coal	13.375	New	J-55	54.5	1,180	1,151	940 / CTS
Intermediate	9.625	New	J-55	36	2,876	2,847	1,046 / CTS
Production	5.5	New	P-110	23	26,504	26,475 /	2,280 TOC @ 1,550'
Tubing	2.375	New	J-55	4.7	Above assumes RF = 29'	TBD	N/A
Liners	N/A						

Gayne Knitowski, Digitally signed by Gayne
Knitowski, Inspector
Date: 2023.10.25 14:22:32
-0400'

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	30	.375	N/A	N/A	Type 1	1.18
Fresh Water	13.375	17.5	.380	2,730	<500	Class A	1.19
Coal	13.375	17.5	.380	2,730	<500	Class A	1.19
Intermediate	9.625	12.25	.352	3,520	<2,815	Class A	1.19
Production	5.5	8.75 x 8.5	.415	14,340	~11,000	Class A or H	1.10
Tubing	2.375	N/A	.190	7,700	N/A	N/A	N/A
Liners							

PACKERS

Kind:	N/A		
Sizes:			
Depths Set:			

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API NO. 47-	0	6	Theresay.	0	manuelle	9	4	7
OPERATOR	WE	LL N	10.	WD	TN1	8DHS	М	_
Well Pad I	Nam	e: v	VDTN	V 18				

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Utilize conductor rig to set 20" conductor into solid rock and cement back to surface. MIRU drilling rig. Air drill 17-1/2" hole. Run and cement 13-3/8" fresh water casing. Note that the FW/coal casing will be set just above elevation - the casing will NOT be set below ground level (setting depth to isolate sloughing formations and red beds below the Pittsburgh Coal Seam). Air drill 12-1/4" hole. Run and cement 9-5/8" intermediate casing. Air drill 8-3/4" production hole to curve KOP (this section is typically directionally drilled with a slant/tangent profile for anti-collision and for lateral spacing). Displace hole with 12.0-12.8 ppg SOBM. Drill 8-1/2" curve from KOP to landing point. Continue drilling 8-1/2" lateral to TD (geosteer this section to remain in Marcellus target window). Perform clean-up cycle to condition well. Run and cement 5-1/2" production casing. Suspend well and skid to next well or RDMO drilling rig.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Test production casing and toe prep well. MIRU stimulation/hydraulic fracturing equipment. Fracture well by pumping required number of stages utilizing plug-and-perf method. Max anticipated treating pressure is ~11,000 psi and max anticipated treating pump rate is ~100 bpm. Number of stages and stage spacing to be finalized after drilling. After last stimulation stage, drill out frac plugs and clean-out well to PBTD. Flow back and clean-up well. Tie well into production. Run tubing when required.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres):	
22) Area to be disturbed for well pad only less access road (acres):	

23) Describe centralizer placement for each casing string:

Fresh water string: centralize shoe joint and every other joint to surface - utilize bow spring centralizers. Intermediate string: centralize shoe joint and every 3rd joint to surface - utilize rigid/bow spring centralizers. Production string: centralize every joint from shoe to TOC - utilize single piece/rigid bow centralizers. Actual centralizer placement may be changed based on hole conditions.

24) Describe all cement additives associated with each cement type:

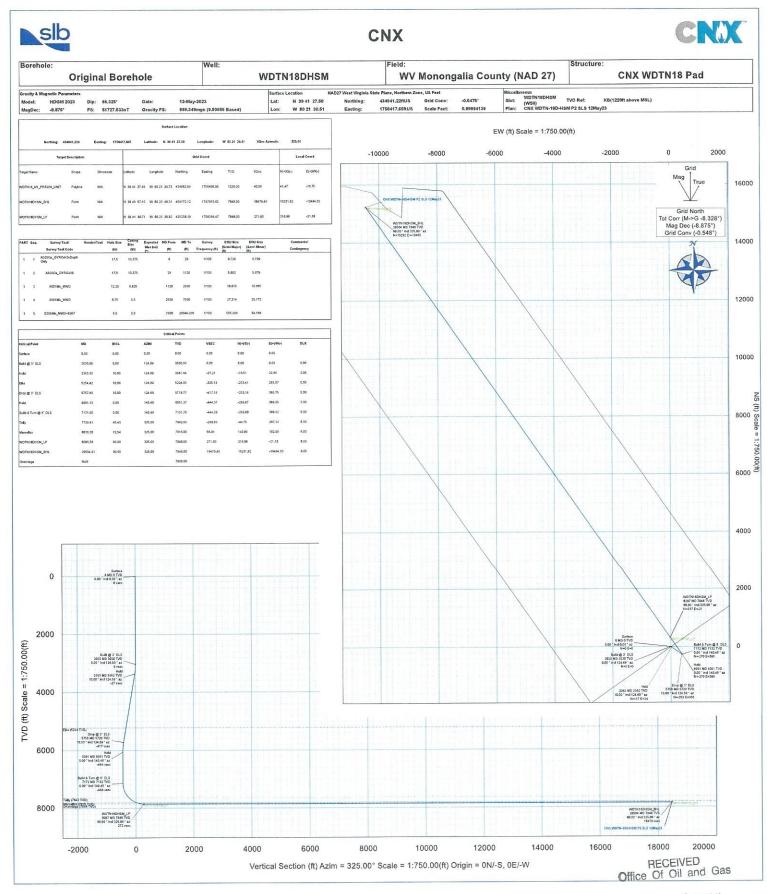
Fresh water/coal string: Class A cement with 1%-3% CaCl2 and 1/4 pps cello-flake/LCM. Intermediate string: Class A cement with 0%-2% CaCl2 and 1/4 pps cello-flake/LCM. Production string: Class A or H cement or Class H:Poz blend with dry blend and/or liquid additives including retarder, suspension agent, gas block, defoamer, fluid loss control, extender, dispersant, anti-settling agent. Actual cement blends may vary slightly depending upon cementing service company utilized.

25) Proposed borehole conditioning procedures:

Air sections are typically vertical holes - will ensure the hole is clean at section TD prior to TOOH to run casing (may require mist and/or soap to clean the hole). For the production hole - once at TD, circulate at max flowrate with max rotation until the shakers clean-up (typically requires multiple bottoms-up). For the production casing - once on bottom with casing, circulate a minimum of one hole volume prior to pumping cement.

*Note:	Attach	additional	sheets	as	needed.
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WDTN18 M1 WV Area of Review

In accordance with WVDEP 35CSR8 Section 5.11, all known shallow oil and gas (SOG) wells have been identified within a 500' radius of the WDTN18 M1 wells that are within West Virginia state boundary. These wells extended their origination in West Virginia cross the state line into Pennsylvania. Any SOG well that falls within the Area of Review (AOR) has been reviewed and is provided in a list that includes API, Operator, Well Name, Well Number, Status, Formation at TD, Total Depth, and Lat/Long (see Figures 3 and 6).

The Marcellus Shale of the Wadestown area is found at an approximate True Vertical Depth (TVD) of 8,000′. In the Wadestown area, there were very few wells that produced from formations deeper than the Bayard Sand (approximately 3,600′). With that being said, there are **no known vertical wells that reach a total depth within 1,500 vertical feet of the Marcellus Shale**. Based on our experience with frac communication and shallow wells, CNX Geology feels that it is highly unlikely for communication to occur with any wells producing in the area above the WDTN18 M1 wells.

The current hypothesis for SOG Communication is that Marcellus frac fluids and pressure intersect and migrate up a nearby fault that acts as a conduit for upward migration and intersection with high permeability reservoirs of the Alexander and Benson. These reservoirs are not developed in the area. Geomechanical data is available that suggests the Tully Limestone to be an adequate upward frac barrier for Marcellus hydraulic fracturing. This data was collected from dipole sonic logs. CNX's nearest sonic data is from the NV20CCV well (Figure 4), approximately 21.4 miles north of the WDTN18 pad. Frac modeling (Figure 5) of the Marcellus in the area does not show significant upward frac growth.

There are no known CNX Marcellus lateral wells that lie within 500' of the proposed WDTN18 M1 wells. If any CNX Marcellus wells existed within 500' of the WDTN18 laterals, we would monitor and utilize the Production Control Room (PCR) to set up alarms via CygNet for any abrupt casing pressure or water rate changes. Those variances are outlined below. If the CNX PCR receives an alarm, the process is to notify the production foreman and production engineer responsible for the pad so that they can analyze if a frac hit is imminent, or if the alarm is of little to no concern. Should a communication event occur that triggers DEP notification requirements per 35CRS8 Section 9.3.a, CNX will follow and implement applicable guidance documents regarding incident reporting and resolution.

- 20% positive or negative rate of change for hourly water log period
- 10% positive or negative rate of change for casing pressure over a period of 30 minutes

There are no 3rd Party Marcellus lateral wells that lie within 500' of the proposed WDTN18 M1 wells in West Virginia.



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Figure 1. Zero 3rd Party Marcellus wells lie within a 500' buffer around the proposed WDTN18 laterals, producing from the Marcellus Shale, shown below.

Well Name/API	Formation	Operator	Orientation	Within Zone of Influence	TVD Depth (ft)
N/A					

Figure 2. Zero CNX wells producing from formations within 1,500' above or below the Marcellus Shale and within 500' of proposed WDTN18 laterals.

Well Name/API	Formation	Operator	Orientation	Within Zone of Influence	TVD Depth (ft)
N/A					

RECEIVED
Office Of Oil and Gas

NO'' -

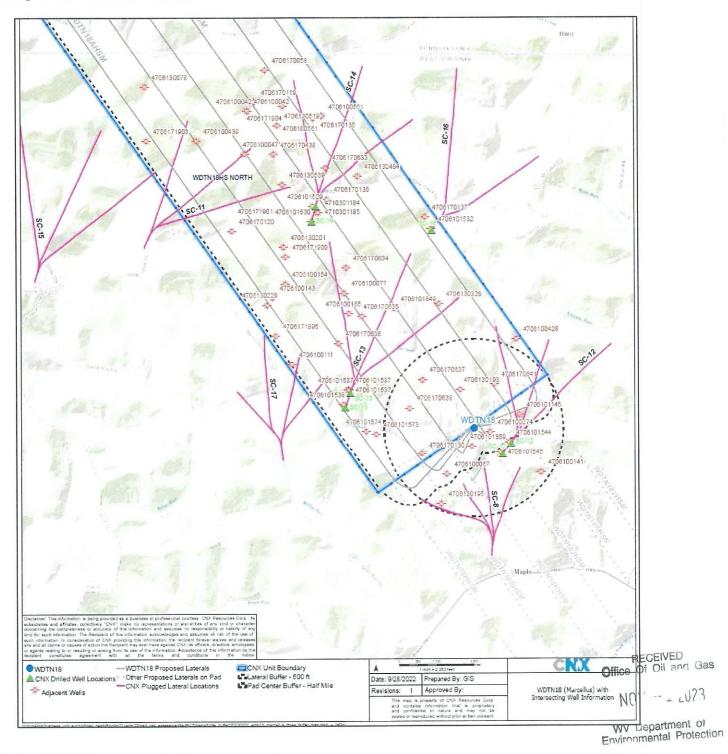
WV Department of Environmental Protection

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Figure 3. 18 wells lie within a 500' buffer around the WDTN18 M1 pad that penetrate the Big Injun Sand or deeper horizons (highlighted green in the table on page 6). The deepest well is 3,740' and produces from the Bayard Sand. No known SOG Communication events have occurred in this area. The pink horizontal wells in the figure below are Pittsburgh Coal seam horizontal laterals.

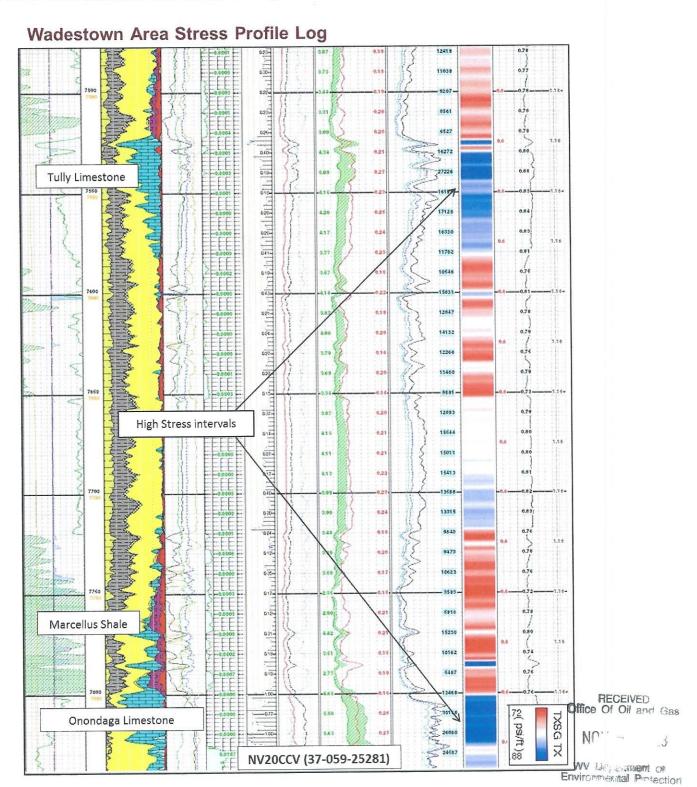


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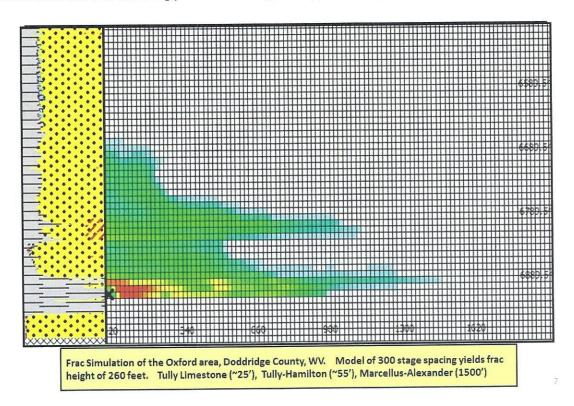
Figure 4. Stratigraphic intervals of high stress should serve as adequate confining layers, or frac barriers, for a Marcellus frac, seen below in the Wadestown Area Stress Profile log.





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Figure 5. Stratigraphic intervals of high stress should serve as adequate frac barriers for a Marcellus frac. The frac modeling example below is from the Oxford area of western Doddridge County, where the Hamilton and Tully are much thinner than Wadestown. Frac modeling predicts frac height of approximately 300'.

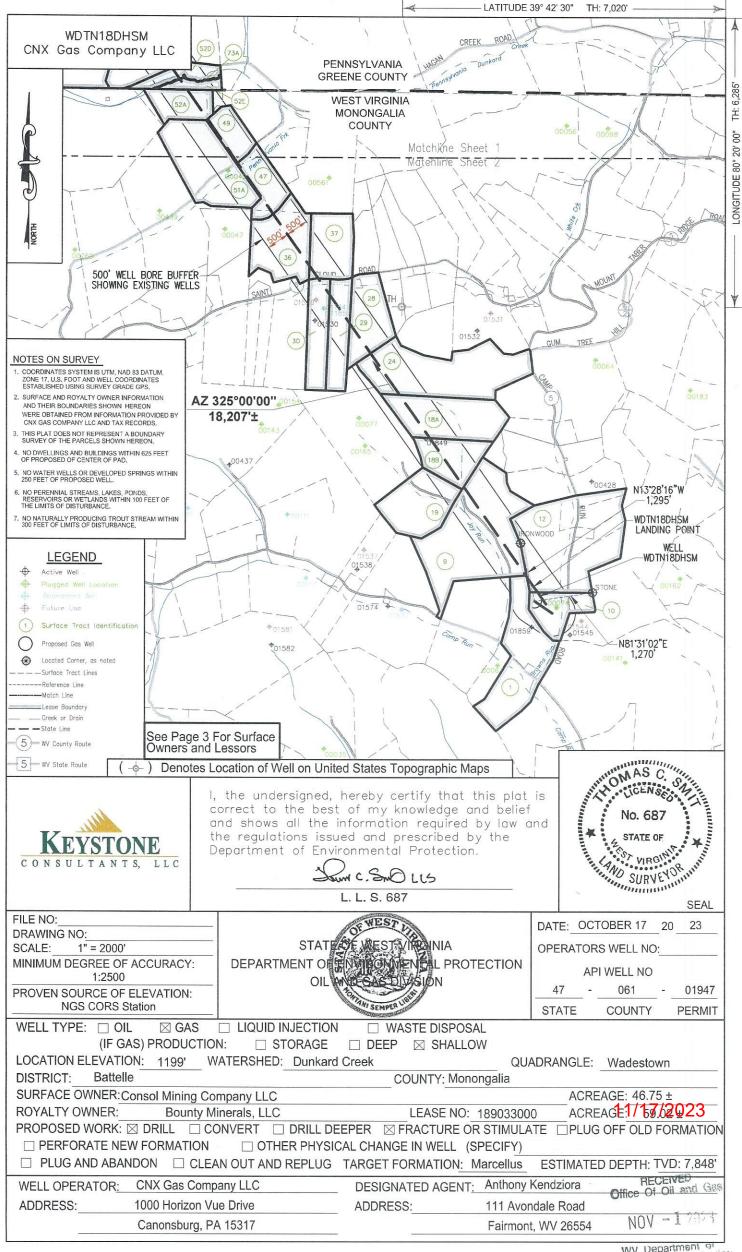


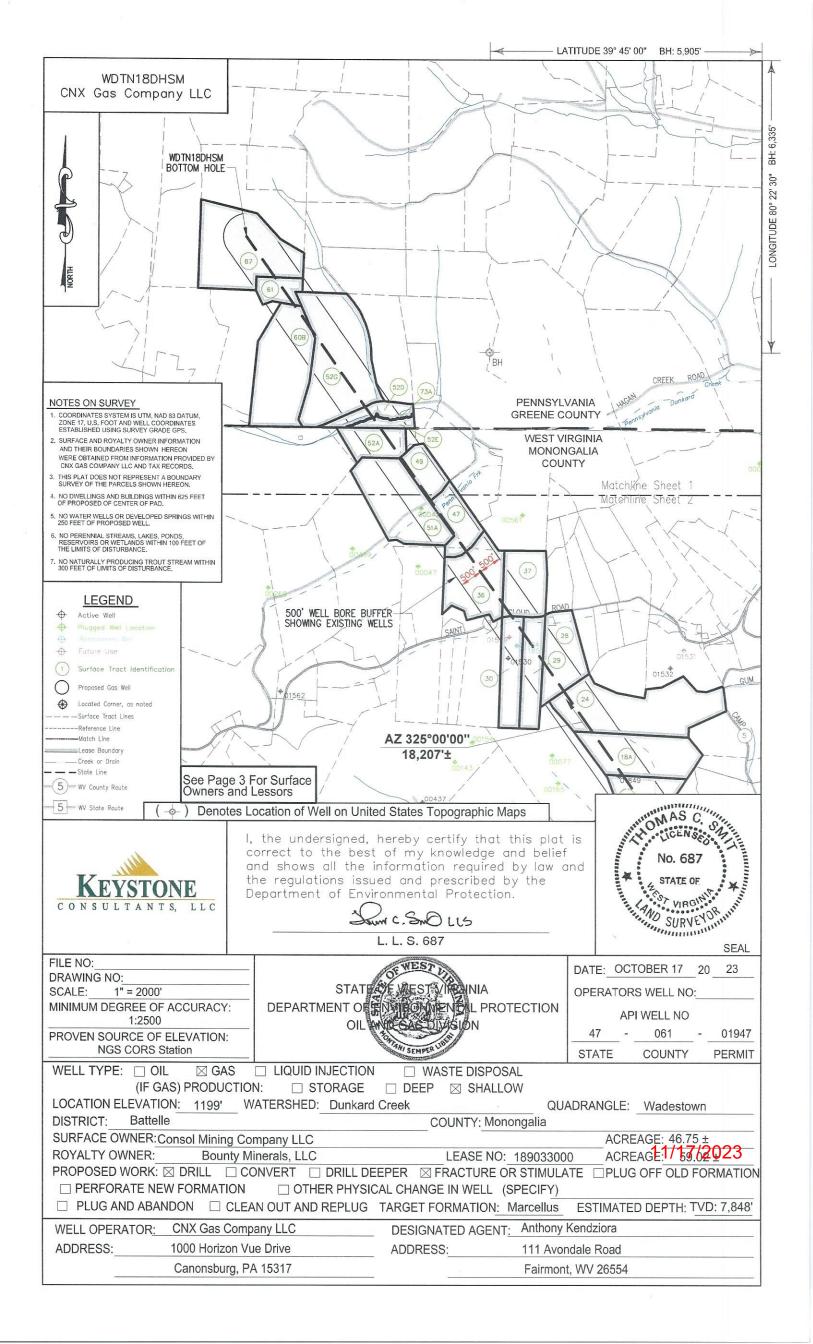


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Figure 6. 70 wells lie within the 500' buffer of the entire WDTN18 M1 wells and pad. With the data available, only 18 of them can be verified to penetrate the Big Injun Sand or deeper stratigraphy (green). 14 of them are Pittsburgh Coal seam wells. 38 wells have no Formation or TD information available (status highlighted pink). Completion reports are not available for these on the WVGES website.

C INCH L	Well Name	Well Nun	he - Current Operator	Fluid Typ +	Profile Typ *	Completion Formatio	Current Statu		Latitude - WG58 -	
API Number *		SC16/		OIL & GAS	V	PITTSBURGH COAL	INACTIVE	912	39,707168	-90.352924
47061015320000	TERRA FIRMA COMPANY		OPER IN MIN.OWNER FLD.NO CODE ASSGN(ORPHAN WELL PRO		V	SEWICKLEY COAL	P&A	920	39,700238	-90.371501
47081001850000	HENNEN, ALEX - HEIRS 1	1		OIL & GAS	v	FITTSBURGH COAL	INACTIVE	1001	39.692845	-80.371996
	CONSOLIDATION COAL CO.	SC13/		OIL & GAS	v	PITTSBURGH COAL	ACTIVE	1210	39.589061	-80.355512
47051015450000 :0	ONSOLIDATION COAL COMPA	A SC12		OIL & GAS	v	UNIDENTIFIED COAL	INACTIVE	1210	39.589912	-80.354637
47051015440000 1	ONSOLIDATION COAL COMPA				v	PITTSBURGH COAL	INACTIVE	1250	39,690865	-80,369574
47061015740000	TERRA FIRMA COMPANY	SC 84		OIL & GAS		PITTSBURGH COAL	INACTIVE	1270	39,69402	-80,371478
47051015370000	CONSOLIDATION COAL CO.	SC13		OIL & GAS	н			1270	39,69402	-80,371478
47051015370100	CONSOLIDATION COAL CO.	SC13	CNX	CBM	Н	<nul></nul>	DRILLED	1270	39.69402	-80,371478
47061015370200	CONSOLIDATION COAL CO.	SC13		CBM	н	<null></null>	COMPLETED			-80.375388
47081015290000	MOORE EDGAR & SETH	SC14		OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1304	39.708911	
47081015300000	MOORE, EDGAR & SETH	SC14		OIL & GAS	V	PITTSBURGH COAL	INACTIVE	1304	39.70766	-80.375445
		F 1	OPER IN MIN.OWNER FLD, NO CODE ASSGN(ORPHAN WELL FRO	U) GAS	V	PITTSBURGH COAL	P&A	1454	39.701449	-80.379491
47061001430000	E C CLOVIS HEIRS			GAS	٧	UNIDENTIFIED COAL	P&A	1520	39,690478	-80.388527
47061015730000	TERRA FIRMA COMPANY	SC E	OPER IN MIN.OWNER FLD, NO CODE ASSGN(ORPHAN WELL PRO		V	PITTSBURGH COAL	P&A	1630	39.702509	-80,378177
47051001540000	CLOVIS, E. C HEIRS 2	2		UNKNOWN	U		INACTIVE	2890	39,717309	-80,381557
47061701190000	ELI WHITE		GIBSON & GILES	GAS	v	BIG INJUN (PRICE&EQ)	P&A	3188	39.687224	-80.351097
47051000670000	M.L. SHRIVER ESTATE 1-2610)	(N/A)		v	PITTSBURGH COAL	P&A	3195	39.718554	-80.382306
47061000420000	SIX, D.A. 1	1	OPER IN MIN.OWNER FLD, NO CODE ASSGN(ORPHAN WELL PRO	U) UNKNOWN		PITTSBURGH COAL	P&A	3195	39,718554	-80.382305
47061000420001	SIX, D.A. 1	F 1	OPER IN MIN.OWNER FLD, NO CODE ASSGN(ORPHAN WELL PRO	U) UNKNOWN	V		INACTIVE	3260	39.715424	-80.379117
47051305190000	S E KIMBLE		NELSON M RICHARDS	GAS	U	FIFTY-FOOT		3362	39.692305	-80.375926
47061000170000	CLOVIS, EVA H. 1		PILLAR ENERGY LLC	UNKNOWN	V	Annual Control of the	P&A			-80.393011
47051300780000	MRS S R COX		WALKER/CONKLIN/MINTR	WATER	U	1ST SALT SAND	INACTIVE	3363	39.71847	-80.382494
	WHITE, JAMES L. 2		(N/A)	UNKNOWN	V		P&A	3371	39.713071	
47061000470000			(N/A)	GAS	٧	THIRTY-FOOT	P&A	3385	39,690707	-80.355592
47051000740000	TENNANT, LEMLEY 5268		AM SNIDER	GAS	U	BAYARD	INACTIVE	3448	39.711364	-90.37068
47051304840000	J H STILES		PITTSBURGH & WV GAS	GAS	V	BAYARD	P&A	3453	39.695078	-80.377426
47051001110000	C E HENNEN	1	CLOVIS ROY W	GAS	U	BAYARD	INACTIVE	3485	39.708579	-80.359501
47051303740000	LUCINDA SIX		0307107137	GAS	V	FIFTH	P&A	3471	39.692173	-80.35359
47051011450000	HAINES, E.	2508		GAS	v	BAYARD	P&A	3501	39,711683	-80,394039
47061002590000	GILMORE, ELIZABETH, ETUX	1" 1	BIG SAND DRILLING/BIG SANDY GAS			BATARD	INACTIVE	3520	39.706819	-90.38381
47981701200000	JAMES L WHITE		(N/A)	UNKNOWN	U	SIG IN UNI OPPIGENTED	INACTIVE	3576	39,700874	-80.380055
47061302290000	E C CLOVIS		PITTSBURGH & WV GAS	GAS	U	BIG INJUN (PRICESEQ)		3890	39.710639	-80,378553
47051305390000	W FRANK TAYLOR		B GUY & A G PATTERSON	GAS	U	FIFTH	INACTIVE	3740	39.687472	-80.351244
	SHRIVER, CHARLES F. 1-353	12	A V COMPANY	WATER	V	BAYARD	P&A			-80.358481
47001001410000	CONSOL MINING COMPANY L	I C MENTALS	HSM CNX	UNKNOWN	H	MARCELLUS SHALE	EXPIRED PERMIT	T ≺Nµll>	39.589504	
470510104280000	SHRIVER 5114	Lt William	PILLAR ENERGY LLC	GAS	V		ACTIVE		39.698254	-80.353953
	CLORIS 5390		PILLAR ENERGY LLC	GAS	V		ACTIVE		39.698981	-80.381931
47061004370000	CEORIS 2390		PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE		39.694108	-80.359785
47051301930000			MANUFACTURERS LIGHT & HEAT CO	GAS	- 11	BAYARD	INACTIVE		39.684778	-80.351558
47061301950000			PITTSBURGH & WV GAS	UNKNOWN	U		INACTIVE		39,705564	-80.378374
47051302010000	CHAS WHITE	page 1 trabas		GAS	U	BAYARD	INACTIVE		39.703049	-80.385587
47051302220000	E C CLOVIS	2	PITTSBURGH & WV GAS	GAS	U	BAYARD	INACTIVE		39,701069	-80.35204
47081303280000	LAURA B TENNANT	1	MANUFACTURERS LIGHT & HEAT CO	GAS	Ü	GORDON STRAY	INACTIVE		39.719919	-90.373313
47051304750000	FRED HENNEN	2	CARNEGIE NATURAL GAS CO	GAS	Ü	GORDON STRAY	INACTIVE		39,719919	-80.373313
47061304750001	FRED HENNEN	7 2	CARNEGIE NATURAL GAS CO				INACTIVE		39.719892	-80.380429
47081700580000	R V HENNEN/TAYLOR		BP	UNKNOWN	U	FIFTH			39.588838	-80.363724
47061701300000		7 1	OPER IN MIN. OWNER FLD, NO CODE ASSGN(ORPHAN WELL PR	OJ) UNKNOWN	U	FIFTH	INACTIVE		39,715004	-80.375361
47081701350000	F H HENNEN		CARNEGIE NATURAL GAS CO	UNKNOWN	U		INACTIVE			-80.373871
47051701350000	JOHN G WHITE		CARNEGIE NATURAL GAS CO	UNKNOWN			INACTIVE		39,709479	-80.363544
	SIMON L WHITE		PHILADELPHIA COMPANY, THE	UNKNOWN			INACTIVE		39.708124	
47051701370000			(N/A)	UNKNOWN	U		INACTIVE		39.693478	-80.348335
47081701570000	HENRY W HAINES		MANUFACTURERS LIGHT & HEAT CO	LINKNOWN			INACTIVE		39,700584	-80.381932
47061701610000	ELIJAH C CLOVIS		(N/A)	UNKNOWN			INACTIVE		39.71307	-80.37949
47081704380000	S E KIMBLE		(NA) BP	UNKNOWN			INACTIVE		39.712055	-80.374044
47061706330000	J G WHITE			UNKNOWN			INACTIVE		39.703915	-90.371794
47061708340000	L A STILES		(N/A)				INACTIVE		39.699995	-80.370104
47081708350000	ALEX HENNAN		CLOVIS	UNKNOWN			INACTIVE		39.697819	-80.372544
47061708360000	L HENNEN		(N/A)	UNKNOWN			INACTIVE		39.694917	-80.363723
47051705370000			(N/A)	UNKNOWN					39.692594	-80.365037
47061706380000			PHILADELPHIA OIL CO	UNKNOWN			INACTIVE		39.092304	-80.356216
47061708410000			PHILADELPHIA DIL CO	UNKNOWN			INACTIVE		39.6984	-80.379115
47051718950000			(N/A)	UNKNOWN	U		INACTIVE			-80.380804
			CLOVIS	UNKNOWN	U		INACTIVE		39,69811	
47081718950000			BP	UNKNOWN			INACTIVE		39.704788	-80.378177
47051719000000			(N/A)	UNKNOWN			INACTIVE		39.707689	-80.382494
47051719010000			(N/A)	UNKNOWN			INACTIVE		39,714085	-80.392816
47061719030000				UNKNOW			INACTIVE		39.715989	-80.378552
47061719040000			(N/A)	DRY HOLI			P&A		39.701883	-80.371981
47081000770000	ALEX HENNEN		PITTSBURGH & WV GAS				P&A		39,714087	-80.387561
47051004390000			EQUITRANS MIDSTREAM	UNKNOW	· · ·		P&A		39.7162	-80.374489
47061005610000		× 3	EQT	GAS	V				39.7162	-80.374489
47081005610001		F 3		GAS	V		P&A		39.720908	-80.401636
			INDIGO ENERGY	UNKNOW			P&A			-80.374798
				UNKNOW	1 V	MAXTON	P&A		39.708413	-00.014100
47051015100000	SANTEE HEIRS 4		J A & M OIL & GAS COMPANY	GAS	v	MAXTON	P&A		39,708413	-80.374798

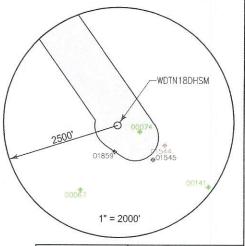


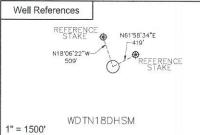


WDTN18DHSM CNX Gas Company LLC

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		1 // 02 0 01 0	
TRACTID	SURFACE OWNER	LESSOR	PIN
1	Consol Mining Comments	Power Minarch, 110	1-9-37
1	Consol Mining Company LLC	Bounty Minerals, LLC	1-12-7
		Bounty Minerals III Acquisitions, LLC	
		LOLA Drilling I, LLC	
		Rice Drilling B, LLC	
RACTID	SURFACE OWNER	LESSOR	DIM
9	Consol Mining Company LLC		PIN
	Consor Willing Company LCC	Paul Reeder, single and Doris L. Wenck, single	1-9-32 1-9-33
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
		CNX Resource Holdings LLC	100
RACTID	SURFACE OWNER	LESSOR	PIN
10	Consol Mining Company LLC	Eastern Associated Coal Corporation	1-9-37
	,,,,,,,, .	amount of the control	1-9-38
RACTID	SURFACE OWNER	LESSOR	PIN
12	Consol Mining Company LLC, et al		1-9-39
	consor winning company LLC, et al	Raiph Six	
			1-9-39.1
			1-9-39.2
			1-9-39.3
			1-9-39.4
			1-9-39.5
			1-9-39.6
		Antero Resources Corporation	
		Doris Margaret White	
		George Stephen Knight	5
RACTID	SURFACE OWNER	LESSOR	DIN
18A	CNX RCPC LLC		PIN
TOM	CNA RCPC LLC	Donna R. Hennen	1-9-20
		WOG Leasing, LLC	
		Milan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife	
		W. CIKOVICI, Jr. and Susan K. CIKOVICI, nusband and wife	
		EQT Production Company	
		Don Fordyce	
		Betty Short	
		Milan W. Cikovich, Jr. and Christine Michelle Park, individually	
		and trustee of of the Amended and Restated Milan W.	
		Cikovich Testamentary Trust F/B/O Francine R. Cikovich	
		Melissa Ann Hennen Limbaugh	
		Linda S. Sansone	
		Mildred Louise Walton	
		Judy Kay Marshall, f/k/a Judy Kay Howard	
A Company		Mary Virginia Davis	
		Karen S. Gray	
		Helene M. Muetzel	
10		James R. Hennen, Jr.	
		Cecil Hennen	
		Roger L. Pratt	
		Nelson James Hennen, Jr.	
		Clark H. Hennen	
		Delores Ann Hennen Bryant	
		Francis J. Waldron Hennen	
		Francis J. Waldron Hennen Ronald Fordyce	
		Ronald Fordyce	
		Ronald Fordyce	
		Ronald Fordyce James Cox	
		Ronald Fordyce James Cox Joseph Muto	
		Ronald Fordyce James Cox	



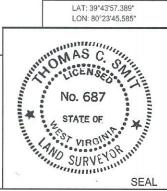


OTHER POPULATION (OTIL)
UTM 17 NAD 83
N: 4393667.28
E: 555023.70
NAD 83, WV NORTH
N: 434978,596
E: 1726980.783
LAT/LON DATUM NAD 83
LAT: 39°41'27.870"
LON: 80°21'29.791"
LANDING POINT
UTM 17 NAD 83
N: 4393763.74
E: 555015.64
NAD 83, WV NORTH
N: 435295.561
E: 1726959.621
LAT/LON DATUM NAD 83

LAT: 39°41'31.001" LON: 80°21'30.100"

SURFACE HOLE LOCATION (SHL)

BOTTOM HOLE LOCATION (BHI WDTN18 WELL PAD UTM 17 NAD 83 N: 4398254.39 E: 551758.33 NAD 83, WV NORTH WDTN18AHSM OO WDTN18UHSM WDTN18BHSM OO WDTN18EHSM WDTN18CHSM OO WDTN18DHSM N: 450209.727 E: 1716517.386 LAT/LON DATUM NAD 83





FILE NO:

DRAWING NO: SCALE: 1" = 1000' I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

> Som c. Smo LLS L. L. S. 687

	DEP/
:	

STATE OF WEST VINIA ARTMENT OF IN BOWNEN FAL PROTECTION

DATE:	OCTOBER 17		20	23
OPERATO	ORS W	ELL NO:		
	API	WELL NO		
47		061		01947
STATE		COUNTY		PERMIT
		7///		

MINIMUM DEGREE OF ACCURACY: 1:2500	DEPARTMENT OF	NA BONNENEAL P	ROTECTION	AF	I WELL NO	
PROVEN SOURCE OF ELEVATION:	OIL	The state of the s		47 -	061	- 01947
NGS CORS Station	`	441 SEMPERUS		STATE	COUNTY	PERMIT
WELL TYPE: ☐ OIL ☐ GAS	☐ LIQUID INJECTION	☐ WASTE DISP	DSAL	1. A 19 2001-		
(IF GAS) PRODUCTION:	☐ STORAGE	☐ DEEP ☐ SHA	LLOW			
LOCATION ELEVATION: 1199' V	ATERSHED: Dunkard	Creek	QUA	ADRANGLE:	Wadesto	own
DISTRICT: Battelle		COUNTY: N	Monongalia			
SURFACE OWNER: Consol Mining Co	mpany LLC			ACRE	AGE:1 49	77#2023
ROYALTY OWNER: Bounty M	linerals, LLC	LEASE N	O: 18903300	0 ACRE	AGE: 5	9.02 ±
PROPOSED WORK: ⊠ DRILL □ C	ONVERT DRILL DEE	PER 🗵 FRACTUR	OR STIMULA	TE PLU	G OFF OLD	FORMATION
☐ PERFORATE NEW FORMATION	☐ OTHER PHYSICA	AL CHANGE IN WELL	(SPECIFY)			_
☐ PLUG AND ABANDON ☐ CLE	AN OUT AND REPLUG	TARGET FORMATIO	N: Marcellus	ESTIMATE	D DEPTH:	TVD: 7,848'
WELL OPERATOR: CNX Gas Comp	any LLC	DESIGNATED AGE	NT: Anthony	Kendziora		
ADDRESS: 1000 Horizon Vu	ie Drive	ADDRESS:	111 Avor	ndale Road		
Canonsburg, PA	A 15317		Fairmon	t, WV 26554		

WDTN18DHSM CNX Gas Company LLC

PAGE 4 OF 5

TRACT ID	SURFACE OWNER	LESSOR	PIN
18B	CNX RCPC LLC	Kimeric and Company LLC	1-9-20
		Antero Resources Corporation	
RACT ID	SURFACE OWNER	LESSOR	PIN
19	Consol Mining Company LLC	Bounty Minerals, LLC	1-9-31
		John E. Stankola	
RACTID		LESSOR	PIN
24	Consol Mining Company LLC	Bounty Minerals, LLC	1-9-19
RACT ID	SURFACE OWNER	LESSOR	PIN
	7.5 (200)		1-9-6
28	Paul David Beck, et al	Bounty Minerals, LLC	1-9-6.3
DACTIO			1-9-6.2
RACT ID		LESSOR	PIN
29	Consol Mining Company LLC	Roger Goodwin and Ilene Goodwin, his wife	1-9-5
		Consolidation Coal Company	
		CONSOL Mining Company LLC	
RACTID	SURFACE OWNER	CNX Resource Holdings LLC	
30	Seth Allen Moore	LESSOR Douglas A. Church	PIN
30	Setti Alien Moore	Terra Firma Company	1-9-4
11-22-22		CNX Land LLC	
RACTID	SURFACE OWNER	LESSOR	DIM
36	Wolfe Kids LLC	XTO Energy Inc.	PIN 1-2-6
	TOTAL MAD ELC	Shuman Inc.	1-2-0
		Noumenon Corporation	
		O-Max Coal Company	
RACTID	SURFACE OWNER	LESSOR	PIN
37	Mike J. Prendergast, et ux	Mike J. Prendergast and Thelma M. Predergast	1-2-7
RACTID	SURFACE OWNER	LESSOR	PIN
47	Consol Mining Company LLC	Shuman Inc.	1-2-5
		Noumenon Corporation	
		O-Max Coal Company	
		Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	
		Consolidation Coal Company	
RACT ID	SURFACE OWNER	LESSOR	PIN
49	Consol Mining Company LLC	David L. McGowan and Brenda J. McGowan	1-2-3
		Barbara A. Berry	
	5 1436-20 y 2011 No. 30 (1) No. 31 (1) No. 41 (1) No. 4	Rand L. Martin and Jeannetta I. Martin	
		Salvatore Veltri and Janis M. Veltri	
		Bessie Eden Wise	
		Consolidation Coal Company	
RACT ID		LESSOR	PIN
51A	Monongalia County Coal Resources Inc.		1-2-1
		Regina Schrimper	
		Latricia Estridge	
_	8	Jon Walton	
		Ellis Shannon McCreadie	
		Anna Marie Boortz	
		Dora Irene Antel Six	
		Virginia L. Smalley	
		Judith Six	
		Alice Clara Conwell, a/k/a Alice Claire Conwell	
		Sarah E. Roark, f/k/a Sarah E. McCreadie	
		Clareen Frances Gomez	
Mark Barrier		Gregory Joseph Kleinhenz MP&G Legacy Holding LLC	
		Stanhagen Legal Limited Liability Company	
		Accord Land Services, LLC	
		Wild Thing Barnstormers, LLC	
		David M. McCallum	
		Marjorie Oakley	***************************************
		Timothy Michael Kleinhenz and Verallen M. Kleinhenz, h/w	
		Laura Lee Cook	
		William N. Richards, a/k/a William Nelson	
		Pamela Colleen Dillon	
		John C. Richards	
		Norita Hinerman	
		Phyllis Ann Richards	
		Douglas Grant Richards, a/k/a Grant Douglas Richards	
		Michael Stephen Kleinhenz	
		Mark Anthony Kleinhenz	
		Andrea Lee Chapman	
		Anthony Francis Kleinhenz	
		Carol Marie Murray	
		Barbara Ann Dillon	
		Linda Samuels	
	The second secon		240000000000000000000000000000000000000
		Jimmie Kyle Core	
		Donna DiPietrantonio, f/k/a Donna Romey	
		Donna DiPietrantonio, f/k/a Donna Romey Wilma Arlene Coffey	

11/17/2023



API WELL NO 47 - 061

47 - 061 - 01947

STATE COUNTY

PERMIT

WDTN18DHSM CNX Gas Company LLC

PAGE 5 OF 5

TRACT ID	SURFACE OWNER	LESSOR	PIN
52A	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.	1-2-2.1
		Mountain V Oil & Gas, Inc.	
		Hayden Harper Energy Pennsylvania, LLC	
		Bluestone Energy Partners	
		Antero Resources Bluestone LLC	
		Antero Resources Appalachian Corporation	
		Energy Corporation of America	
		EQT Production Company	

11/17/2023



API WELL NO

47 - 061 - 01947

STATE COUNTY

PERMIT

WW-6A1 (5/13)

Operator's Well No.	WDTN18DHSM
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or

Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Attached

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

WV Division of Water and Waste Management

WV Division of Natural Resources WV Division of Highways

U.S. Army Corps of Engineers

U.S. Fish and Wildlife Service

County Floodplain Coordinator

Office Of Oil and Gas

NOV -1 2023

WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: CNX GAS COMPANY LLC

By:

SARAH WEIGAND

Its:

MANAGER PERMITTING SERVICES

Page 1 of 5

		Attachment - Form	WW-6A-1 for WDTN18DHSM				
_							
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
1	1-9-37 1-12-7	189033000	Consol Mining Company LLC	Bounty Minerals, LLC	LOLA Drilling I, LLC	Not less than 1/8	1586/32
				Bounty Minerals III Acquisitions, LLC	LOLA Drilling I, LLC	Not less than 1/8	1586/32
				LOLA Drilling I, LLC Rice Drilling B, LLC	Rice Drilling B, LLC CNX Gas Company LLC	Assignment Assignment	133/752 159/809
ract ID	Tax Map &	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc			
9	Parcel 1-9-32	# 188616000		ACONTAIN CONTINUE OF THE CONTI	Grantee, Lessee, etc	Royalty	Book/Pag
9	1-9-32	188616000	Consol Mining Company LLC	Paul Reeder, single and Doris L. Wenck, single	Consolidation Coal Company	Fee	1309/43
				Consolidation Coal Company CONSOL Mining Company LLC	CONSOL Mining Company LLC CNX Resource Holdings LLC	Quitclaim	1489/10
				CNX Resource Holdings LLC	CNX Gas Company LLC	Quitclaim Quitclaim	1603/78 1667/86
ract ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
10	Parcel 1-9-37	203527000	Consol Mining Company LLC	Eastern Associated Coal Corporation	CNX Gas Company LLC	Fee	1267/23
	1-9-38				The state of the s	ree	1207/23
ract ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
12	Parcel 1-9-39	189024000	Consol Mining Company LLC, et al	Ralph Six	Antero Resources Corporation	Not less than 1/8	1781/354
	1-9-39.1 1-9-39.2 1-9-39.3 1-9-39.4 1-9-39.5 1-9-39.6	18909000 189019000 189020000 189021000 189022000 189023000					20435
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	158/372
				Doris Margaret White George Stephen Knight	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	1484/34
ract In	Tay Men P	Title Opinio- OLC	Surface Aug			Not less than 1/8	1482/43
ract ID	Parcel	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
18A	1-9-20	188573000	CNX RCPC LLC	Donna R. Hennen WOG Leasing, LLC	WOG Leasing, LLC CNX Gas Company LLC	Not less than 1/8	1800/21
						Assignment	161/362
				Milan W. Cikovich, Jr. and Susan K. Cikovich, husband and wife	EQT Production Company	Not less than 1/8	1642/410 1644/14
				EQT Production Company	CNX Gas Company LLC	Assignment	159/809
				Don Fordyce Betty Short	CNX Gas Company LLC	Not less than 1/8	1639/56
				Milan W. Cikovich, Jr. and Christine Michelle Park, individually and trustee of of	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1639/553 1648/73
				the Amended and Restated Milan W. Cikovich Testamentary Trust F/B/O Francine R. Cikovich	45 5454		PATRICULAR S
				Melissa Ann Hennen Limbaugh Linda S. Sansone	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8	1655/291
				Mildred Louise Walton	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1807/789
				Judy Kay Marshall, f/k/a Judy Kay Howard Mary Virginia Davis	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1655/286 1656/792
				Karen S. Gray	CNX Gas Company LLC	Not less than 1/8	1650/660
				Helene M. Muetzel James R. Hennen, Jr.	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1653/752 1655/282
				Cecil Hennen	CNX Gas Company LLC	Not less than 1/8	1826/36
				Roger L. Pratt Nelson James Hennen, Jr.	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1808/146 168/224
				Clark H. Hennen			
				Delores Ann Hennen Bryant	CNX Gas Company LLC CNX Gas Company LLC	Fee Fee	1650/594 1640/737
				Francis J. Waldron Hennen Ronald Fordyce	CNX Gas Company LLC CNX Gas Company LLC	Fee	1638/794
				James Cox	CNX Gas Company LLC	Fee Fee	1640/741 1653/690
				Joseph Muto	CNX Gas Company LLC	Fee	1640/733
				Robert Morgan and Vickie Morgan	Terra Firma Company	Fee	1285/420
				Terra Firma Company CNX Land LLC	CNX Land LLC CNX Gas Company LLC	Merger Quitclaim	60/312 1827/131
ract ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
18B	Parcel 1-9-20	188573000	CNX RCPC LLC	Kimeric and Company LLC	Antero Resources Corporation	Not less than 1/8	1776/602
				Antero Resources Corporation	CNX Gas Company LLC	Assignment	158/372
ract ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
19	Parcel 1-9-31	# 293176000	Consol Mining Company LLC	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1644/316
			-	John E. Stankola	CNX Gas Company LLC	Not less than 1/8	1644/316 1735/826
act ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
24	Parcel 1-9-19	188567000	Consol Mining Company LLC	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1644/316
ract ID	Tax Map &	Title Opinion QLS	Surface Owner				
	Parcel	#		Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
28	1-9-6 1-9-6.1	188563000	Paul David Beck, et al	Bounty Minerals, LLC	CNX Gas Company LLC	Not less than 1/8	1694/225
	1-9-6.2						
act ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
29	Parcel 1-9-5	188562000	Consol Mining Company LLC	Roger Goodwin and Ilene Goodwin, his wife	Consolidation Coal Company	Fee	1309/678
				Consolidation Coal Company	CONSOL Mining Company LLC	Quitclaim	1489/107
				CONSOL Mining Company LLC CNX Resource Holdings LLC	CNX Resource Holdings LLC CNX Gas Company LLC	Quitclaim Quitclaim	1603/78 1666/713
act ID	Tax Map &	Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc		
30	Parcel	#		2000 000 1 (State Of Le		Royalty	Book/Page
JU	1-9-4	188561000	Seth Allen Moore	Douglas A. Church Terra Firma Company	Terra Firma Company CNX Land LLC	Fee Merger	1295/148 60/312
				CNX Land LLC	CNX Gas Company LLC	Quitclaim	1666/707
act ID		litle Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
36	Parcel 1-2-6	189588000	Wolfe Kids LLC	XTO Energy Inc.	CNX Gas Company LLC	Not less than 1/8	1639/585
				Shuman Inc.	CNX Gas Company LLC	Not less than 1/8	1736/212
				Noumenon Corporation O-Max Coal Company	CNX Gas Company LLC CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1731/229 1731/234
act ID	Tax Map &	Title Opinion QLS	Surface Owner				
	Parcel	#		Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
37	1-2-7	191527000	Mike J. Prendergast, et ux	Mike J. Prendergast and Thelma M. Predergast	CNX Gas Company LLC	Not less than 1/8	1507/432

Pay 2 of 3

Tract ID	Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
/ 47	1-2-5	191524000	Consol Mining Company LLC	Shuman Inc.	CNX Gas Company LLC		
				Noumenon Corporation		Not less than 1/8	1736/212
				O-Max Coal Company	CNX Gas Company LLC	Not less than 1/8	1731/229
				o max coar company	CNX Gas Company LLC	Not less than 1/8	1731/234
				Flossie Kimble; Denzle Kimble and Olive Irene Wright Kimble	C		
				Consolidation Coal Company	Consolidation Coal Company	Fee	715/529
				Constitution Coal Company	CNX Gas Company LLC	Deed	1300/1
Tract ID	Tax Map & Parcel	Title Opinion QLS #	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Pag
49	1-2-3	195150000	Consol Mining Company LLC	David L. McGowan and Brenda J. McGowan	CNX Gas Company LLC	Not less than 1/8	
				Barbara A. Berry	CNX Gas Company LLC	Not less than 1/8	1522/557
		1000		Rand L. Martin and Jeannetta I. Martin	CNX Gas Company LLC	Not less than 1/8	1523/12
				Salvatore Veltri and Janis M. Veltri	CNX Gas Company LLC	Not less than 1/8	1523/125
					CON OUR COMPANY LLC	Not less than 1/8	1523/129
		and the second		Bessie Eden Wise	Consolidation Coal Company	Fee	200.000
				Consolidation Coal Company	CNX Gas Company LLC	Deed	704/511 1300/1
					CHA GOZ COMPANY CLC	Deed	1300/1
ract ID		Title Opinion QLS	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	David (Davi
/	Parcel	#			Statited, Ecoset, etc	Royalty	Book/Pag
51A	1-2-1	189460000	Monongalia County Coal Resources Inc.	XTO Energy, Inc.	CNX Gas Company LLC	Not less than 1/8	1639/585
				Regina Schrimper	CNX Gas Company LLC	Not less than 1/8	1639/585
			A STATE OF THE STA	Latricia Estridge	CNX Gas Company LLC	Not less than 1/8	1652/16
				Jon Walton	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	
				Ellis Shannon McCreadie	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1651/79
				Anna Marie Boortz	CNX Gas Company LLC	Not less than 1/8 Not less than 1/8	1652/706
				Dora Irene Antel Six	CNX Gas Company LLC		1656/770
				Virginia L. Smalley	CNX Gas Company LLC	Not less than 1/8	1663/11
				Judith Six	CNX Gas Company LLC	Not less than 1/8	1661/277
				Alice Clara Conwell, a/k/a Alice Claire Conwell	CNX Gas Company LLC	Not less than 1/8	1664/181
				Sarah E. Roark, f/k/a Sarah E. McCreadie	CNX Gas Company LLC	Not less than 1/8	1674/451
				Clareen Frances Gomez		Not less than 1/8	1680/447
				Gregory Joseph Kleinhenz	CNX Gas Company LLC	Not less than 1/8	1685/636
				MP&G Legacy Holding LLC	CNX Gas Company LLC	Not less than 1/8	1685/626
				Stanhagen Legal Limited Liability Company	CNX Gas Company LLC	Not less than 1/8	1733/414
				Accord Land Services, LLC	CNX Gas Company LLC	Not less than 1/8	1734/284
				Wild Thing Barnstormers, LLC	CNX Gas Company LLC	Not less than 1/8	1734/274
				David M. McCallum	CNX Gas Company LLC	Not less than 1/8	1734/279
				Marjorie Oakley	CNX Gas Company LLC	Not less than 1/8	1751/656
				Timothy Michael Kleinhenz and Verallen M. Kleinhenz, h/w	CNX Gas Company LLC	Not less than 1/8	1805/450
				Laura Lee Cook	CNX Gas Company LLC	Not less than 1/8	1646/430
				William N. Richards, a/k/a William Nelson	CNX Gas Company LLC	Not less than 1/8	1651/813
				Pamela Colleen Dillon	CNX Gas Company LLC	Not less than 1/8	1651/818
			The state of the s	John C. Richards	CNX Gas Company LLC	Not less than 1/8	1653/762
				Norita Hinerman	CNX Gas Company LLC	Not less than 1/8	1664/784
				Phyllis Ann Richards	CNX Gas Company LLC	Not less than 1/8	1663/71
				Douglas Grant Richards, a/k/a Grant Douglas Richards	CNX Gas Company LLC	Not less than 1/8	1664/126
				Michael Stephen Kleinhenz	CNX Gas Company LLC	Not less than 1/8	1674/444
				Mark Anthony Kleinhenz	CNX Gas Company LLC	Not less than 1/8	1826/525
				Andrea Lee Chapman	CNX Gas Company LLC	Not less than 1/8	168/226
				Anthony Francis Kleinhenz	CNX Gas Company LLC	Not less than 1/8	168/226
				Anthony Francis Kleinhenz Carol Marie Murray	CNX Gas Company LLC	Not less than 1/8	168/226
				Barbara Ann Dillon	CNX Gas Company LLC	Not less than 1/8	168/226
				Barbara Ann Dillon Linda Samuels	CNX Gas Company LLC	Not less than 1/8	168/226
				Minda Janinets	CNX Gas Company LLC	Not less than 1/8	168/226
				limmic Kule Cove			
				Jimmie Kyle Core Donna DiPietrantonio, f/k/a Donna Romey	CNX Gas Company LLC	Fee	1677/188
				Wilma Arlene Coffey	CNX Gas Company LLC	Fee	1675/278
				Monongalia County Coal Company	CNX Gas Company LLC	Fee	1696/629
				monongana county coar company	CNX Gas Company LLC	Fee	1660/124
act ID	Tax Man &	Title Opinion QLS	Surface Owner	Grant1			
	Parcel	#	Surface Owner	Grantor, Lessor, etc	Grantee, Lessee, etc	Royalty	Book/Page
52A	1-2-2.1	239984000	Cucumber Tree Farm Inc.	Cucumber Tree Farm, Inc.			
				Mountain V Oil & Gas, Inc.	Mountain V Oil & Gas, Inc.	Not less than 1/8	1328/406
					Hayden Harper Energy Pennsylvania, LLC	Assignment	100/444
-				Hayden Harper Energy Pennsylvania, LLC	Bluestone Energy Partners	Assignment	108/486
-		-		Bluestone Energy Partners	Antero Resources Bluestone LLC	Merger	WVSOS
				Antero Resources Bluestone LLC	Antero Resources Appalachian Corporation	Assignment	115/803
				Antero Resources Appalachian Corporation	Energy Corporation of America	Assignment	116/92
-				Energy Corporation of America EQT Production Company	EQT Production Company	Assignment	124/688
				EQT Production Company	CNX Gas Company LLC	Assignment	159/797

Pag 303

 From:
 Weigand, Sarah

 To:
 EP, SW OG-Submissions

 Cc:
 Zachwieja, Becky

Subject: CNX AOR for WDTN18 M1 Wells with Origination in West Virginia

Date: Monday, October 9, 2023 11:47:00 AM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png image006.jpg

20231009 WDTN18 M1 cover letter.pdf

WDTN18 M1 PA AORS.xlsx WDTN18 M1 AOR Well Maps.pdf

20231009 WDTN18 M1 PA monitoring and historic.pdf

Hello,

Please find CNX's AOR for our WDTN18 M1 wells that originate in West Virginia, but cross the southern state line into Pennsylvania. Per the guidance given earlier this year, we were advised that we should follow the AOR requirements and submit to this email. The attached cover letter includes locational information as well as additional documentation of the earlier guidance given, as well as a screenshot of the failed attempt to submit via Greenport. Typically AOR's are submitted individually, however since this isn't getting submitted via Greenport all wells are tabbed in the excel summaries and the PDF for maps includes all individual well maps.

Thank you,

Sarah Weigand

CNX | Manager, Permitting Services

CNX Center | 1000 Horizon Vue Drive | Canonsburg, PA 15317

(724) 485-3244 – office | (412) 628-1829 – mobile



cnx.com

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From: <u>Donohue, Thomas E</u>

To: Weigand, Sarah; Zachwieja, Becky

Cc: Campbell, Heather; Keller, Joel; Sabocheck, Scott
Subject: [EXTERNAL] CNX - WDTN18UHSM Well Permit Application

Date: Thursday, October 27, 2022 8:46:28 AM

Attachments: WV Well Plat - CNX.pdf

CAUTION: This email originated from outside CNX. Do not click links or open attachments unless you recognize the sender and believe the content is safe.

Sarah and Becky,

Thank you for your notification that this WV well will be crossing into PA. Please be aware of CNX's obligations to submit an Area of Review survey pursuant to PA Code Ch. 78a.52a for the portion of the well that will exist in Pennsylvania, prior to commencing drilling.

Additionally, if the portion of this well in Pennsylvania is drilled below the top of the Onondaga horizon, CNX will need to adhere to provisions of the Oil & Gas Conservation Law, in particular Section 6. This states in part that "....In areas in which no spacing order has been entered and no application is pending, no permit shall be issued for the drilling of a well unless the location of the well is at least three hundred thirty feet from the nearest outside boundary line of the lease on which it is located: Provided, however, That if the lease is included in a voluntary unit, a well may be located without regard to lease lines if it is not within three hundred thirty feet of the nearest unit line....". Please provide a statement whether or not the portion of the well in Pennsylvania will be drilled below the top of the Onondaga.

Links to PA Code Ch. 78a.52a and the Oil & Gas Conservation Law are below for your reference.

PA Code Ch. 78a.52a – Area of Review http://www.pacodeandbulletin.gov/Display/pacode? file=/secure/pacode/data/025/chapter78a/chap78atoc.html&d=#78a.52a.

Oil & Gas Conservation Law

http://files.dep.state.pa.us/OilGas/BOGM/BOGMPortalFiles/LawsRegsGuidelines/Act359uc.pdf

Please let me know if you have any questions.

Thanks

Thomas E. Donohue, P.G. | Environmental Program Manager Department of Environmental Protection | District Oil & Gas Operations 400 Waterfront Dr. | Pittsburgh, PA 15222 Phone: 412.442.4004 | Fax: 412.442.4328

www.depweb.state.pa.us



CNX Center 1000 Horizon Vue Drive Canonsburg, PA 15317-6506 724-485-4000 CNX.COM

October 24, 2023

West Virginia Department of Environmental Protection Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304-2345

RE: WDTN18DHSM- *MODIFICATION* Horizontal Drilling Permit Application

To Whom It May Concern:

CNX Gas Company LLC (CNX) is requesting a modification to extend the WDTN18DHSM horizontal lateral well permit. The subject WDTN18 Marcellus lease well, is in Monongalia County.

CNX would like to use the expedited review process for the WDTN18DHSM Modification application and have enclosed a check for: \$15,150.00. CNX previously permitted the "WDTN18DHSM" in September 2023.

If any further information or correspondence is required, please contact me at (724) 485-3244 or SarahWeigand@cnx.com .

Sincerely,

Sarah Weigand

RECEIVED Office Of Oil and Gas

NOV -1 2023

WV Department of Environmental Protection





November 7, 2023

West Virginia Department of Environmental Protection Office of Oil & Gas Attn: Cragin Blevins 601 57th Street, SE Charleston, WV 25304-2345

RE: WDTN18 A-E MOD Payments

Dear Cragin,

Please find the correct checks for the WDTN18 A, B, C, D, & E MOD permit applications enclosed.

Thank you,

Becky Zachwieja

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NOV 08 2023

WV Department of Environmental Protection